

EQUALIZERS FOR LAYERED MODULATED AND OTHER SIGNALS

ABSTRACT OF THE DISCLOSURE

A method and apparatus for equalizing digital data signals is disclosed. The
5 method comprises the steps of demodulating and decoding an input signal having input
data to produce a data output, remodulating the data output to produce a training sequence
including an idealized input signal, wherein the training sequence is comprised of
adjacent symbols in the input data, and generating equalizer parameters from the training
sequence. The apparatus comprises a demodulator (for demodulating an input signal to
10 produce a data output), a modulator communicatively coupled to the demodulator (for
remodulating the data output to produce a training sequence including an idealized input
signal wherein the training sequence is comprised of adjacent symbols in the input data),
and a parameter generation module communicatively coupled to the modulator (for
generating equalizer parameters from the training sequence).

15